

Abstract

In a refrigerant circuit (20), a refrigerator circuit (110) and a freezing circuit (30) are connected in parallel to an outdoor circuit (40). In the freezing circuit (30), a freezer circuit (130) and a booster circuit (140) are connected in series. A booster compressor (141) and a four-way switch valve (142) are provided in the booster circuit (140). During the time when a freezer heat exchanger (131) performs cooling operation for cooling the inside air, refrigerant evaporated in the freezer heat exchanger (131) is compressed in the booster compressor (141), and then, is sucked into a variable capacitance compressor (41). On the other hand, during defrosting of the freezer heat exchanger (131), the refrigerant evaporated in a refrigerator heat exchanger (111) is compressed in the booster compressor (141), and then, is supplied to the freezer heat exchanger (131). The refrigerant condensed in the freezer heat exchanger (131) during the defrosting operation is sent back to the refrigerator heat exchanger (111).